

VB-400 High Capacity Hybrid Encoder and Recorder



vemotion

More video, less bandwidth

VB-400

The **VB-400** from Vemotion is a multi-channel hybrid recording and transmission unit, supporting a mix of SD and HD, Analogue and IP, HDMI*, HD-SDI* audio and video.



The VB-400 from Vemotion is a high capacity multi-channel hybrid recording and transmission unit supporting options for Analogue and IP, HDMI, HD-SDI inputs. It offers both superb performance and the ability to support higher numbers of camera inputs.

Its many standout features include its amazing low latency and sheer high quality of the images transmitted at efficient bitrates, as well as its ability to support a variety of input types. It can be used for a wide variety of different applications and in a wide variety of different environments, as the unit has been specifically designed to deliver bandwidth efficient live video transmission and control in even the most challenging wireless and wired network conditions.

Simplicity of operation makes the VB-400 a compelling choice when you need to choose a high-performance unit supporting many camera inputs. Multiple channels of transmission from the same unit are also possible with additional licensing. Further user-friendly features include the ability to define the on-board recording and transmission parameters, together with a local user interface for full rate camera viewing and control (including recorded footage playback).

The VB-400 makes use of Vemotion's optimised video compression and unique, low latency, V-TX transmission technology; technology which is fully encrypted and secure. This further differentiates the VB-400 within the marketplace, while delivering ease of use and rock-solid performance.

All Vemotion's products are designed to be 'plug & play', to be highly reliable, and to put you in complete control of the bandwidth used. Also, they all work without the need for any specialist SIM cards or expensive airtime contracts, so keeping usage costs to a minimum.

A VB-400PoE* configuration is available on request.

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VB-400 Specification

Environmental

Operating Temp.	-40°C ~ 70°C
Storage Temp.	-40°C ~ 85°C
Relative Humidity	0% RH – 95% RH
Vibration (random)	2.5g@5~500 Hz, 3 Axes
Vibration Operating	5 Grms, 5-500 Hz, 3 Axes
Shock	Operating, 50 Grms, Half-sine 11 ms Duration

I/O

Serial Port	2 x RS-232, 2 x RS-485
USB Port	4 x USB 3.0 Ports, 2 x USB 2.0 Ports for Internal
LAN	2 x RJ45 Ports for GbE, 4x PoE+
Video Output	1 x DVI-I
DIO Port	8x Optical Isolated DIO (4x DI, 4X DO), 10 pin Terminal Block
Video/Audio Input	2 x DB9 – DB9 to 4 BNC & 4 phono (Total of 8 video and audio)
SIM Card Socket	1 x SIM Card Sockets Supported Onboard with eject
IP interface	6 x RJ45 with the option of 4 being POE Factory fit option of 4 off POE being M12 connectors

System

CPU	Intel Gen 6 Core i5-6300U 3.00GHz
Memory	4GB RAM, SATA M305 32GB SSD (OS), WD 1TB HDD 5400rpm
Chipset	SoC
LAN Chipset	1x Intel GBI210-AT 1x Intel GBI219-LM Ethernet Controllers Onboard, Support PXE, WOL and Teaming
Audio	Realtek ALC888 HD Codec Onboard
Watchdog	Watchdog Timer Support, Offer 1 – 255 Step

Resolution

Resolution	Up to 1920x1080
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Storage

Type	1 x 2.5" Drive Bay for SATA Type HDD/SSD, plus removable SSD option
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Power

Power Input	9V - 42V DC Power Input
Power Draw	2.6 amps at full load
Power Protection	Automatics Recovery Short Circuit Protection
Power Management	Vehicle Power Ignition for Variety Vehicle
Power Off Control	Power off Delay Time Setting by Software
POE (optional)	POE+ (plus) - Will power equipment 50 to 57 Vdc with a current of 600mA, providing 25W at the powered device after voltage drop within the cable.

Mechanical

Construction	Aluminium Alloy
Mounting	Supports Wall-mount
Weight/dimensions	1650 g (Barebone) 203 x 142 x 66.8 mm

Qualifications

Certifications	CE, FCC Class A, Mark Pending, EN50155, EN50121-3-2
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